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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,564	08/27/2003	Messay Amerga	020673	8247
	7590 12/12/200 INCORPORATED	EXAM	IINER	
5775 MOREHO	OUSE DR.		SAFAIPOUR, BOBBAK	
SAN DIEGO,	CA 92121		ART UNIT	PAPER NUMBER
			2618	
			NOTIFICATION DATE	DELIVERY MODE
			12/12/2008	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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# Office Action Summary

Application No.	Applicant(s)	
10/650,564	AMERGA, MESSAY	
Examiner	Art Unit	
BOBBAK SAFAIPOUR	2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

Ctatus		

A SHORTENED STATUTORY PERIOD FOR REPLY IS S WHICHEVER IS LONGER, FROM THE MALLING DATE C Extensions of sime may be available under the provisions of 37 CFR 1.136(a). In after SIX (6) MCNITHS from the making date of the communication.  Failure to reply whith the act or extended period for reply will be stabute, cause Any reply received by the Cffice later than three months after the making date of earned patient form adultance. See 37 CFR 1.734(b).	OF THIS COMMUNICATION.  In no event, however, may a reply be timely filled  y and will expire SIX (6) MONTHS from the mailing date of this communication, the application to become ABANDONED (35 U.S.C. § 133).					
Status						
1) Responsive to communication(s) filed on 27 August	2008.					
2a) This action is FINAL. 2b) ☐ This action						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-21 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn fro	om consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-21</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election	tion requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is 11) The oath or declaration is objected to by the Examine	required if the drawing(s) is objected to. See 37 CFR 1.121(d). er. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priori	ity under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PC	T Rule 17.2(a)).					
* See the attached detailed Office action for a list of the	e certified copies not received.					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)					
Notice of Draftsperson's Patent Drawing Review (PTO-948)   Paper No(s)/Mail Date.   .						

Paper No(s)/Mail Date \_\_\_\_\_

6) Other:

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#### DETAILED ACTION

### Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 21 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The language of the claim raises a question as to whether the claim is directed merely to an abstract idea that is not tied to a technological art, environment or machine which would result in a practical application producing a concrete, useful, and tangible result to form the basis of statutory matter under 35 USC 101.

Although support is shown in the specification, which discloses that "a software module may reside in RAM memory, flash memory, ROM memory, EPROM memory, EEPROM memory, registers, hard disk, a removable disk, a CD-ROM, or any other form of storage medium known in the art" (paragraph 77), claim 21 is completely silent where the software module may reside. As a result, claim 21 is rejection under 35 U.S.C. 101. Appropriate correction is required.

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### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Amerga et al (hereinafter "Amerga"; US 2003/0231605) in view of Bamburak et al. (US 2004/0219915 Al; hereinafter Bamburak).

Consider claim 1, Amerga discloses an apparatus, comprising: a search scheduler for scheduling a search (figure 4; paragraph 36; frequency scan using a full search of all frequencies) based at least in part on a serving cell transceiving gap defined for searching outside of a serving cell. (figure 4; paragraphs 36-38; the existence or location of neighboring systems can be communicated to the mobile station from the located system)

Amerga fails to specifically disclose generating a frequency switch blocking signal to override opening the serving cell transceiving gap for searching outside of the serving cell and a frequency controller for generating frequency switch commands, receiving the frequency switch

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blocking signal, and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted.

In related art, Bamburak discloses generating a frequency switch blocking signal to override opening the serving cell transceiving gap for searching outside of the serving cell (read as undesirable or prohibited SOC(s) or SID(s) or if the user enters an override command) and a frequency controller for generating frequency switch commands, receiving the frequency switch blocking signal, and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted. (paragraph 27; figure 5 and paragraph 33; figure 9; A search schedule is downloaded using a master search schedule. When downloading the search schedule, frequency bands previously searched are removed from the downloaded schedule to avoid searching bands that have already been searched.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Bamburak into the teachings of Amerga to locate a preferable wireless service provider in a multi service provider environment using a frequency band search schedule.

Consider claim 13, Amerga discloses a first Integrated Circuit (IC), responsive to a frequency switch signal generated in a second IC, the second IC comprising: a search scheduler (figure 4; paragraph 36; frequency scan using a full search of all frequencies) for scheduling a search based at least in part on a serving cell transceiving gap defined for searching outside of a serving cell (figure 4; paragraphs 36-38; the existence or location of neighboring systems can be communicated to the mobile station from the located system) and a first IC comprising; a

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frequency synthesizer to receive the frequency switch signal from the second IC and to generate an output signal, the frequency of the output signal changing from a first frequency to a second frequency in response to the frequency switch signal (paragraphs 30-39).

Amerga fails to specifically disclose generating a frequency switch blocking signal to override opening the serving cell transceiving gap for searching outside of the serving cell and a frequency controller for generating frequency switch commands, receiving the frequency switch blocking signal, and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted.

In related art, Bamburak discloses generating a frequency switch blocking signal to override opening the serving cell transceiving gap for searching outside of the serving cell (read as undesirable or prohibited SOC(s) or SID(s) or if the user enters an override command) and a frequency controller for generating frequency switch commands, receiving the frequency switch blocking signal, and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted. (paragraph 27; figure 5 and paragraph 33; figure 9; A search schedule is downloaded using a master search schedule. When downloading the search schedule, frequency bands previously searched are removed from the downloaded schedule to avoid searching bands that have already been searched.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Bamburak into the teachings of Amerga to locate a preferable wireless service provider in a multi service provider environment using a frequency band search schedule.

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Consider claim 14, Amerga discloses a wireless communication device, comprising: a search scheduler for scheduling a search (figure 4; paragraph 36; frequency scan using a full search of all frequencies) based at least in part on a serving cell transceiving gap defined for searching outside of a serving cell. (figure 4; paragraphs 36-38; the existence or location of neighboring systems can be communicated to the mobile station from the located system)

Amerga fails to specifically disclose generating a frequency switch blocking signal to override opening the serving cell transceiving gap for searching outside of the serving cell and a frequency controller for generating frequency switch commands, receiving the frequency switch blocking signal, and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted.

In related art, Bamburak discloses generating a frequency switch blocking signal to override opening the serving cell transceiving gap for searching outside of the serving cell (read as undesirable or prohibited SOC(s) or SID(s) or if the user enters an override command) and a frequency controller for generating frequency switch commands, receiving the frequency switch blocking signal, and suppressing the generation of frequency switch commands when the frequency switch blocking signal is asserted. (paragraph 27; figure 5 and paragraph 33; figure 9; A search schedule is downloaded using a master search schedule. When downloading the search schedule, frequency bands previously searched are removed from the downloaded schedule to avoid searching bands that have already been searched.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Bamburak into the teachings of Amerga to locate a

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preferable wireless service provider in a multi service provider environment using a frequency band search schedule.

Consider claim 17, Amerga discloses a method of searching in the presence of frequency gaps, comprising: a search scheduler (figure 4; paragraph 36; frequency scan using a full search of all frequencies) for scheduling a search based at least in part on a serving cell transceiving gap defined for searching outside of a serving cell. (figure 4; paragraphs 36-38; the existence or location of neighboring systems can be communicated to the mobile station from the located system)

Amerga fails to specifically disclose suppressing the generation of frequency switch during the scheduled search to override opening the serving cell transceiving gap for searching outside of the serving cell.

In related art, Bamburak discloses suppressing the generation of frequency switch during the scheduled search to override opening the serving cell transceiving gap for searching outside of the serving cell. (paragraph 27; figure 5 and paragraph 33; figure 9; A search schedule is downloaded using a master search schedule. When downloading the search schedule, frequency bands previously searched are removed from the downloaded schedule to avoid searching bands that have already been searched.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Bamburak into the teachings of Amerga to locate a preferable wireless service provider in a multi service provider environment using a frequency band search schedule.

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Consider claim 20, Amerga discloses an apparatus, comprising: means for scheduling a search (figure 4; paragraph 36; frequency scan using a full search of all frequencies) based at least in part on a serving cell transceiving gap defined for searching outside of a serving cell. (figure 4; paragraphs 36-38; the existence or location of neighboring systems can be communicated to the mobile station from the located system)

Amerga fails to specifically disclose means for suppressing the generation of frequency switch during the scheduled search to override opening the serving cell transceiving gap for searching outside of the serving cell.

In related art, Bamburak discloses means for suppressing the generation of frequency switch during the scheduled search to override opening the serving cell transceiving gap for searching outside of the serving cell. (paragraph 27; figure 5 and paragraph 33; figure 9; A search schedule is downloaded using a master search schedule. When downloading the search schedule, frequency bands previously searched are removed from the downloaded schedule to avoid searching bands that have already been searched.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Bamburak into the teachings of Amerga to locate a preferable wireless service provider in a multi service provider environment using a frequency band search schedule.

Consider claim 21, Amerga discloses processor readable media encoded with software operable to perform the following steps: scheduling a search (figure 4; paragraph 36; frequency

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scan using a full search of all frequencies) based at least in part on a serving cell transceiving gap defined for searching outside of a serving cell. (figure 4; paragraphs 36-38; the existence or location of neighboring systems can be communicated to the mobile station from the located system)

Amerga fails to specifically disclose suppressing the generation of frequency switch during the scheduled search to override opening the serving cell transceiving gap for searching outside of the serving cell.

In related art, Bamburak discloses suppressing the generation of frequency switch during the scheduled search to override opening the serving cell transceiving gap for searching outside of the serving cell. (paragraph 27; figure 5 and paragraph 33; figure 9; A search schedule is downloaded using a master search schedule. When downloading the search schedule, frequency bands previously searched are removed from the downloaded schedule to avoid searching bands that have already been searched.)

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Bamburak into the teachings of Amerga to locate a preferable wireless service provider in a multi service provider environment using a frequency band search schedule.

Consider claim 2, and as applied to claim 1 above, Amerga, as modified by Steudle, discloses the claimed invention wherein a gap manager for indicating when a frequency switch is to occur, and wherein the search scheduler schedules the search during a period of time without a

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frequency switch as indicated by the gap manager. (Bamburak: paragraph 27; figure 4 and paragraph 33; figure 9)

Consider claim 3, and as applied to claim 1 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler comprises a timer, the expiration of which indicates a search is to be scheduled. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 4, and as applied to claim 3 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler schedules a search without asserting the frequency switch blocking signal prior to the timer expiration. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 5, and as applied to claim 3 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the timer resets upon the completion of a scheduled search. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39; performing searches at new frequencies)

Consider claim 6, and as applied to claim 3 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler schedules a search and asserts the frequency switch blocking signal subsequent to the timer expiration. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

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Consider claim 7, and as applied to claim 1 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler asserts the frequency switch blocking signal during the scheduled search. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 8, and as applied to claim 2 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler schedules a plurality of search types. (abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 9, and as applied to claim 81 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler schedules one or more of the plurality of search types (Amerga: abstract; figures 2, 4-9; paragraphs 36-39) in response to the frequency switch indicator received from the gap manager. (Bamburak: paragraph 27; figure 4 and paragraph 33; figure 9)

Consider claim 10, and as applied to claim 8 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler comprises a plurality of timers corresponding to one or more of the plurality of search types, the expiration of each timer indicating a search of the respective search type is to be scheduled. (abstract; figures 2, 4-9; paragraphs 36-39)

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Consider claim 11, and as applied to claim 10 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the search scheduler schedules a search corresponding to one of the plurality of search types and asserts the frequency switch blocking signal subsequent to the respective timer expiration. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 12, and as applied to claim 8 above, Amerga, as modified by Steudle, discloses the claimed invention wherein the plurality of search types comprises one or more of a list search, a W-CDMA step one search, or a W-CDMA step two search (Amerga: abstract)

Consider claim 15, and as applied to claim 14 above, Amerga, as modified by Steudle, discloses the claimed invention wherein frequency synthesizer to receive the frequency switch commands and to generate an output signal, the frequency of the output signal changing from a first frequency to a second frequency in response to the frequency switch commands. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 16, and as applied to claim 14 above, Amerga, as modified by Steudle, discloses the claimed invention wherein a searcher for searching in accordance with the scheduled search and for indicating to the search scheduler when the scheduled search is complete. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 18, and as applied to claim 17 above, Amerga, as modified by Steudle, discloses the claimed invention wherein determining future frequency switches; and wherein the

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search is scheduled during a time period in which no future frequency switches are determined.

(Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

Consider claim 19, and as applied to claim 18 above, Amerga, as modified by Steudle, discloses the claimed invention wherein timing the duration between searches; and scheduling searches without suppressing frequency switches prior to the timed duration reaching a predetermined maximum. (Amerga: abstract; figures 2, 4-9; paragraphs 36-39)

#### Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Bobbak Safaipour whose telephone number is (571) 270-1092. The Examiner can normally be reached on Monday-Friday from 9:00am to 5:00pm.

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If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

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3028.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist/customer service whose telephone number is (571) 272-

2600.

/Bobbak Safaipour/ Examiner, Art Unit 2618

December 5, 2008

/Matthew D Anderson/

Supervisory Patent Examiner, Art Unit 2618